Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Previously presented) An organic light-emitting diode (OLED) device which produces white light, comprising:
 - a) an anode;
 - b) a hole-transporting layer disposed over the anode;
- c) a blue light-emitting layer having a host doped with a blue light-emitting compound disposed directly on the hole-transporting layer and the blue light-emitting layer being doped with an electron-transporting or a hole-transporting material or both selected to improve efficiency and operational stability;
- d) an electron-transporting layer disposed over the blue lightemitting layer;
 - e) a cathode disposed over the electron-transporting layer; and
- f) the hole-transporting layer or electron-transporting layer, or both the hole-transporting layer and electron-transporting layer, being selectively doped with a compound which emits light in the yellow region of the spectrum which is included in an entire layer or a partial portion of a layer in contact with the blue light-emitting layer.
- 2. (Currently amended) The OLED device of claim 1 wherein hole-transporting or the electron-transporting material in the blue light-emitting layer is selected to be in a range of from .5 to 10 percent by volume of the host material and when both are used, they are selected to be in a range of from 1 to 20 percent by volume of the host material.
- 3. (Currently amended) The OLED device of claim 1 wherein the hole-transporting material in the blue light-emitting layer are is:
 - 1,1-Bis(4-di-p-tolylaminophenyl)cyclohexane;
 - 1,1-Bis(4-di-*p*-tolylaminophenyl)-4-phenylcyclohexane;
 - 4,4'-Bis(diphenylamino)quadriphenyl;

Bis(4-dimethylamino-2-methylphenyl)-phenylmethane;

N,N,N-Tri(p-tolyl)amine;

4-(di-p-tolylamino)-4'-[4(di-p-tolylamino)-styryl]stilbene;

N,N,N',N'-Tetra-p-tolyl-4-4'-diaminobiphenyl;

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N,N,N',N'-tetra-1-naphthyl-4,4'-diaminobiphenyl;
       N,N,N',N'-tetra-2-naphthyl-4,4'-diaminobiphenyl;
       N-Phenylcarbazole;
       4,4'-Bis[N-(1-naphthyl)-N-phenylamino]biphenyl (NPB);
       4,4'-Bis[N-(1-naphthyl)-N-(2-naphthyl)amino]biphenyl (TNB);
       4,4"-Bis[N-(1-naphthyl)-N-phenylamino]p-terphenyl;
       4,4'-Bis[N-(2-naphthyl)-N-phenylamino]biphenyl;
       4.4'-Bis[N-(3-acenaphthenyl)-N-phenylamino]biphenyl;
        1,5-Bis[N-(1-naphthyl)-N-phenylamino]naphthalene;
       4,4'-Bis[N-(9-anthryl)-N-phenylamino]biphenyl;
       4,4"-Bis[N-(1-anthryl)-N-phenylamino]-p-terphenyl;
       4,4'-Bis[N-(2-phenanthryl)-N-phenylamino]biphenyl;
       4,4'-Bis[N-(8-fluoranthenyl)-N-phenylamino]biphenyl;
       4,4'-Bis[N-(2-pyrenyl)-N-phenylamino]biphenyl;
       4,4'-Bis[N-(2-naphthacenyl)-N-phenylamino]biphenyl;
       4,4'-Bis[N-(2-perylenyl)-N-phenylamino]biphenyl;
       4,4'-Bis[N-(1-coronenyl)-N-phenylamino]biphenyl;
       2,6-Bis(di-p-tolylamino)naphthalene;
       2,6-Bis[di-(1-naphthyl)amino]naphthalene;
       2,6-Bis[N-(1-naphthyl)-N-(2-naphthyl)amino]naphthalene;
       N,N,N',N'-Tetra(2-naphthyl)-4,4"-diamino-p-terphenyl;
       4,4'-Bis{N-phenyl-N-[4-(1-naphthyl)-phenyl]amino}biphenyl;
       4,4'-Bis[N-phenyl-N-(2-pyrenyl)amino]biphenyl;
       2,6-Bis[N,N-di(2-naphthyl)amine]fluorene;
       1,5-Bis[N-(1-naphthyl)-N-phenylamino]naphthalene;
       4,4',4"-tris[(3-methylphenyl)phenylamino]triphenylamine (MTDATA); or
       4,4'-Bis[N-(3-methylphenyl)-N-phenylamino]biphenyl (TPD).
              4.
                      (Currently amended) The OLED device of claim 1
wherein the electron-transporting materials in the blue light-emitting layer is are:
       Balq;
       Aluminum trisoxine [alias, tris(8-quinolinolato)aluminum(III)];
       Magnesium bisoxine [alias, bis(8-quinolinolato)magnesium(II)];
       Bis[benzo{f}-8-quinolinolato]zinc (II);
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N,N,N',N'-Tetraphenyl-4,4'-diaminobiphenyl;

Bis(2-methyl-8-quinolinolato)aluminum(III)-μ-oxo-bis(2-methyl-8-quinolinolato) aluminum(III);

Indium trisoxine [alias, tris(8-quinolinolato)indium];

Aluminum tris(5-methyloxine) [alias, tris(5-methyl-8-quinolinolato) aluminum(III)];

Lithium oxine [alias, (8-quinolinolato)lithium(I)];
Gallium oxine [alias, tris(8-quinolinolato)gallium(III)]; or
Zirconium oxine [alias, tetra(8-quinolinolato)zirconium(IV)].

- 5. (Previously presented) The OLED device of claim 1 wherein the hole-transporting material is NPB and the electron-transporting material is Alq.
- 6. (Previously presented) The OLED device of claim 1 wherein the hole-transporting material is NPB and the electron-transporting material is BAlq.
- 7. (Original) The OLED device of claim 1 wherein the yellow light-emitting compound is:

$$R_1$$
 R_2
 R_3

wherein R₁, R₂, R₃, R₄, R₅, R₆ represent one or more substituents on each ring where each substituent is individually selected from the following groups:

Group 1: hydrogen, or alkyl of from 1 to 24 carbon atoms;

Group 2: aryl or substituted aryl of from 5 to 20 carbon atoms;

Group 3: carbon atoms from 4 to 24 necessary to complete a fused aromatic ring of phenyl, naphthyl, anthracenyl, phenanthryl, pyrenyl, or perylenyl;

Group 4: heteroaryl or substituted heteroaryl of from 5 to 24 carbon atoms such as thiazolyl, furyl, thienyl, pyridyl, quinolinyl or other heterocyclic systems, which may be bonded via a single bond, or may complete a fused heteroaromatic ring system;

Group 5: alkoxylamino, alkylamino, or arylamino of from 1 to 24 carbon atoms; or

Group 6: fluorine, chlorine, bromine or cyano.

8. (Original) The OLED device of claim 6 wherein the yellow-emitting dopants includes 5,6,11,12-tetraphenylnaphthacene (rubrene); 6,11-diphenyl-5,12-bis(4-(6-methyl-benzothiazol-2-yl)phenyl)naphthacene (DBzR) or 5,6,11,12-tetra(2-naphthyl)naphthacene (NR), the formulas of which are shown below:

or

- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Previously presented) The OLED device of claim 1 wherein the blue light emitting compound includes distyrylamine derivatives as shown by the formula

- 12. (Previously presented) The OLED device of claim 1 wherein the blue light emitting compound_dopant further includes perylene and its derivatives.
- 13. (Original) The OLED device of claim 12 wherein the perylene derivative is 2,5,8,11-tetra-tert-butyl perylene (TBP).
- 14. (Previously presented) The OLED device of claim 1 wherein the blue light emitting compound is represented by the following formulas:

B-2

B-3

B-4

B-5

B-6

B-7

N B F F

N B F F F

F F ;

B-8

- 15. (Original) The OLED device of claim 1 wherein the concentration of blue emitting dopants, is in the range of greater than 0 and less than 10% percent by volume of the host material.
- 16. (Original) The OLED device of claim 1 wherein thickness of the hole-transporting layer is between 5 nm-300 nm.
- 17. (Original) The OLED device of claim 1 wherein the hole-transporting layer includes two or more sublayers, the sublayer closest to the blue light-emitting layer being doped with yellow-emitting dopants.
- 18. (Original) The OLED device of claim 17 wherein the dopant in the hole transport material is 5,6,11,12-tetraphenylnaphthacene (rubrene); 6,11-diphenyl-5,12-bis(4-(6-methyl-benzothiazol-2-yl)phenyl)naphthacene (DBzR); or 5,6,11,12-tetra(2-naphthyl)naphthacene (NR), and the thickness of the layer containing yellow dopant is in a range between 1 nm-300 nm.
- 19. (Original) The OLED device of claim 1 wherein thickness of the blue light-emitting layer is in a range between 5 nm-100 nm.
- 20. (Original) The OLED device of claim 1 wherein a hole-injecting layer is provided between the anode and the hole-transporting layer.
- 21. (Original) The OLED device of claim 20 wherein the hole-injecting layer comprises CFx, CuPC, or m-MTDATA.
- 22. (Previously presented) The OLED device of claim 20 wherein the thickness of the hole injecting layer is 0.1 nm-100 nm.
- 23. (Previously presented) The OLED device of claim 1 wherein the thickness of the electron-transporting layer is in a range between 5 nm-150 nm.

- 24. (Original) The OLED device of claim 1 wherein the cathode is selected from the group consisting of LiF/Al, Mg:Ag alloy, Al-Li alloy, and Mg-Al alloy.
- 25. (Original) The OLED device of claim 1 wherein the cathode is transparent.
- 26. (Original) The OLED device of claim 1 wherein the electron-transporting layer is transparent.
- 27. (Original) The organic light-emitting diode (OLED) device of claim 1 wherein the electron-transporting layer is doped with a green light-emitting dopant or a combination of green and yellow light-emitting dopants.
- 28. (Original) The OLED device of claim 27 wherein of the green dopant in the electron-transporting layer includes a coumarin compound.
- 29. (Original) The OLED device of claim 28 wherein the coumarin compound includes C545T or C545TB.
- 30. (Previously presented) The OLED device of claim 27 wherein the green light-emitting dopant is selected from the group consisting of:

-11-

G-4 G-5 G-6 G-7 G-7 G-7 G-7 G-7 G-7 G-7

- 31. (Previously presented) The OLED device of claim 27 wherein green dopant concentration is between 0.1-5% percent by volume of the electron transport material in the electron transporting layer.
- 32. (Previously presented) The OLED device of claim 1 further including a buffer layer disposed on the cathode layer.
- 33. (Original) The OLED device of claim 32 wherein thickness of the buffer layer is in a range between 1 nm-1000 nm.
- 34. (Previously presented) The OLED device of claim 1 further including a color filter array.
 - 35. Cancelled.
 - 36. Cancelled.
- 37. (Original) The OLED device of claim 1 wherein the hole-transporting layer includes an aromatic tertiary amine.
- 38. (Original) The OLED device of claim 1 wherein the electron-transporting layer includes copper phthalocyanine compound.

39. (Previously presented) The OLED device of claim 1 wherein the blue light-emitting layer includes host material selected from the group consisting of:

; and wherein the blue light-emitting dopant includes

or derivatives thereof.

40. (Previously presented) The OLED device of claim 3 wherein the blue light-emitting layer includes host material selected from the group consisting of:

and

; and wherein the blue light-emitting dopant includes

or derivatives thereof.